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(FILE 'HOME' ENTERED AT 17:00:40 ON 17 DEC 1998)

FILE 'REGISTRY' ENTERED AT 17:00:46 ON 17 DEC 1998
E PENTAERYTHRITOL/CN

L1 1 S E3

E 2-ETHYLHEXANOIC/CN

L2 1 S E4

E 3,5,5-TRIMETHYLHEXANOIC/CN

L3 1 S E4

FILE 'CA' ENTERED AT 17:02:03 ON 17 DEC 1998

L4 15 S L1 AND L2 AND L3

L4 ANSWER 5 OF 15 CA COPYRIGHT 1998 ACS
AN 128:104245 CA
TI Polyol ester compositions with unconverted hydroxyl groups for use
as lubricant base stocks
IN Pafford, Bernie J.; Kim, Jeenok T.; Godici, Patrick E.; Aldrich,
Haven S.; Schlosberg, Richard H.; Krevalis, Martin A.
PA Exxon Chemical Patents Inc, USA
SO U.S., 19 pp.
CODEN: USXXAM
PI US 5698502 A 19971216
AI US 96-712023 19960911
DT Patent
LA English
OS MARPAT 128:104245
AB A synthetic ester compn. which exhibits thermal and oxidative
stability, lower friction coeff. and lower wear, wherein the ester
compn. comprises the reaction product of: a linear or. Branched
alc. having the general formula $R(OH)_n$, wherein R is an aliph. or
cyclo-aliph. group having from .apprx.2 to 20 carbon atoms and n is
at least 2; and at least one linear and/or branched acid which has a
carbon no. in the range between about C4 to C20, wherein the
synthetic ester compn. has a hydroxyl no. of between about greater
than 5 to 180, preferably between about greater than 5 to 100, and
more preferably between .apprx.10 to 80.

L4 ANSWER 14 OF 15 CA COPYRIGHT 1998 ACS
AN 121:87387 CA
TI Refrigerator working fluid compositions
IN Hagiwara, Toshia; Sakai, Akimitsu
PA Kao Corp, Japan
SO Jpn. Kokai Tokkyo Koho, 13 pp.
CODEN: JKXXAF
PI JP 05331474 A2 19931214 Heisei
AI JP 92-210861 19920714
PRAI JP 92-105940 19920330
DT Patent
LA Japanese
AB Working fluid compns. for refrigerators comprise hydrofluorocarbons and ester base oils (I no. <1 g/100 g) selected from .gtoreq.1 of (A) esters prep'd. from (a) aliph. polyhydric alcs. having 1-6 primary hydroxyl groups and (b) C2-9 straight or branched-chain satd. aliph. monocarboxylic acids or their derivs., (B) esters obtained from (a) aliph. polyhydric alcs. having 1-6 primary hydroxyl groups, (b) C2-9 straight or branched-chain satd. aliph. monocarboxylic acids or their derivs., and (c) C2-10 straight or branched-chain satd. aliph. dicarboxylic acids or their derivs., and (C) esters prep'd. from (a) aliph. polyhydric alcs. having 1-6 primary hydroxyl groups, (d) C1-10 straight or branched-chain satd. aliph. monovalent alcs., and (e) C2-10 multivalent carboxylic acids or their derivs.

L4 ANSWER 10 OF 15 CA COPYRIGHT 1998 ACS
AN 123:117318 CA
TI Polyol ester lubricants, especially those compatible with mineral oils, for refrigerating compressors operating at high temperatures
IN Schnur, Nicholas E.
PA Henkel Corp., USA
SO PCT Int. Appl., 27 pp.
CODEN: PIXXD2
PI WO 9513333 A1 19950518
DS W: AM, AT, AU, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI,
GB, GE, HU, JP, KE, KG, KP, KR, KZ, LK, LR, LT, LU, LV, MD, MG,
MN, MW, NL, NO, NZ, PL, PT, RO, RU, SD, SE, SI, SK, TJ, TT, UA,
US, UZ
RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, DE, DK, ES, FR, GA, GB, GR,
IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG
AI WO 94-US12544 19941031
PRAI US 93-149407 19931109
DT Patent
LA English
AB A high quality lubricant for compressors operated during at least part of their compression cycle at temps. above normal human comfort temps., such as most automotive air conditioners, esp. those using Cl-free hydrofluorocarbon refrigerant working fluids, is provided by mixed esters of hindered polyols, esp. pentaerythritol, with a mixt. of carboxylic acids including, e.g., iso-pentanoic acid and .gtoreq.1 of iso-nonanoic acid, iso-octanoic acid, and dibasic acids such as adipic acid. When the mixt. includes about 7% adipic acid and branched C8-9 and C5 monobasic acids in a ratio of .gtoreq.0.75:1.00, the esters formed have excellent solv. for paraffinic and naphthenic mineral oils and are well suited for lubricating vehicle air conditioners formerly contg. Cl contg. heat transfer fluids and mineral oil lubricants.

L4 ANSWER 8 OF 15 CA COPYRIGHT 1998 ACS
AN 125:304802 CA
TI Polyol ester compositions with unconverted hydroxyl groups
IN Schlosberg, Richard Henry; Aldrich, Haven S.; Sherwood-Williams,
Lavonda Denise; Szobota, John S.; Krevalis, Martin Anthony; Leta,
Daniel P.; Holt, David G. L.; Gordon, Fay H.
PA Exxon Chemical Patents Inc., USA
SO PCT Int. Appl., 62 pp.
CODEN: PIXXD2
PI WO 9628525 A1 19960919
DS W: AU, BR, CA, CN, FI, JP, NO, PL, SG
RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT,
SE
AI WO 96-US3518 19960314
PRAI US 95-403366 19950314
DT Patent
LA English
OS MARPAT 125:304802
AB A synthetic ester compn. which exhibits thermal and oxidative
stability, lower friction coeff., and lower wear, comprises the
reaction product of a branched or linear alc. having the general
formula $R(OH)_n$, wherein R is an aliph. or cycloaliph. group having
2-20 carbon atoms and n is at least 2; and at least one branched
monocarboxylic acid which has a C no. of 5-13; wherein the synthetic
ester compn. has .apprx.5-35% unconverted hydroxyl groups, based on
the total amt. of hydroxyl groups in the branched or linear alc.
The polyol ester compn. can be used in the formulation of various
lubricants.